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(54) NEW LYOPHYLLUM ULMARIUM STRAIN

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new Lyophyllum ulmarium strain in which period from inoculation of strain to harvest of fruit body is shortened.

SOLUTION: About 1,000 wild Lyophyllum ulmarium strains are collected and mycelium of each strain is cultured in a liquid medium and activity of cellulase produced in the culture medium is sequentially measured and 4 strains each having a high cellulase activity from initial stage of culture is primarily selected. Culture test of the primarily selected strains is repeatedly practiced to observe occurrence conditions and characteristic of fruit body and one strain having good conditions and characteristics is secondarily selected. A fruit body produced without aging step is obtained from the secondarily selected strains. Selection of the fruit body is repeated to provide a finally selected strain having good shape of fruit body and high yield. The finally selected strain is repeatedly cultured to obtain the new strain of Lyophyllum ulmarium in which period from inoculation of strain to harvest of fruit body is 50–75 days, and the occurrence, the character and the yield are stabilized.

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